

## Message

**From:** Sasnow, Zachary [sasnow.zachary@epa.gov]  
**Sent:** 7/9/2018 3:23:20 PM  
**To:** Ramanauskas, Peter [ramanauskas.peter@epa.gov]  
**Subject:** RE: Madison Kipp Corporation Groundwater Analytical Summary Table

Hi Pete,

Sorry for the late reply, I was out on leave. This makes sense; typically you add ascorbic acid to quench an oxidant like permanganate.

That being said, this process wasn't discussed at all in the documents we reviewed in April; if they intend to need to do this every sampling event (which is likely since there's an active ISCO process going) then the document should include the procedure for quenching samples (i.e. quenching chemical used, amount added, testing for permanganate, etc.).

Zack

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**From:** Ramanauskas, Peter  
**Sent:** Tuesday, July 3, 2018 12:54 PM  
**To:** Sasnow, Zachary <sasnow.zachary@epa.gov>  
**Subject:** FW: Madison Kipp Corporation Groundwater Analytical Summary Table

Hi Zack,

Remember the question I had about "quenching" samples? See explanation below.

Pete

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**From:** Vater, Katherine [<mailto:KVater@trcsolutions.com>]  
**Sent:** Tuesday, July 03, 2018 12:36 PM  
**To:** Ramanauskas, Peter <[ramanauskas.peter@epa.gov](mailto:ramanauskas.peter@epa.gov)>  
**Cc:** Beedle, Michael <[beedle.michael@epa.gov](mailto:beedle.michael@epa.gov)>; Mark Sheppard <[msheppard@madison-kipp.com](mailto:msheppard@madison-kipp.com)>; Stehn, Andrew <[AStehn@trcsolutions.com](mailto:AStehn@trcsolutions.com)>  
**Subject:** RE: Madison Kipp Corporation Groundwater Analytical Summary Table

Peter –

In 2013-2014, samples from eight wells (MW-3S, MW-3D2, MW-19D, MW-19D2, MW-20, MW-20D2, MW-21D, and MW-21D2) were quenched prior to shipping for laboratory analysis. These wells are located within the central portion of the northern parking lot and are near the ISCO injection area, a pilot treatment for chlorinated VOC impacts to groundwater that was conducted around that time by the previous consultant. Samples collected from these wells had visual indication of permanganate so they were quenched. Quenching reduces the potential for the samples to be further react while shipping to the laboratory, and it assists in providing a un-biased sample of the water quality without interference from on-going treatment reactions.

The footnote to the table will be revised as follows: Between 2013 and 2014, following in-situ chemical oxidation (ISCO) injections, samples from eight wells (MW-3S, MW-3D2, MW-19D, MW-19D2, MW-20, MW-20D2, MW-21D, and MW-21D2) with visual indication of permanganate were quenched prior to shipping for laboratory analyses.

Let me know if you need any further information.

Thanks,  
Katherine

608-826-3663

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**From:** Ramanauskas, Peter [<mailto:ramanauskas.peter@epa.gov>]  
**Sent:** Wednesday, June 13, 2018 12:25 PM  
**To:** Vater, Katherine <[KVater@trcsolutions.com](mailto:KVater@trcsolutions.com)>  
**Cc:** Beedle, Michael <[beedle.michael@epa.gov](mailto:beedle.michael@epa.gov)>; Mark Sheppard <[msheppard@madison-kipp.com](mailto:msheppard@madison-kipp.com)>; Stehn, Andrew <[AStehn@trcsolutions.com](mailto:AStehn@trcsolutions.com)>  
**Subject:** RE: Madison Kipp Corporation Groundwater Analytical Summary Table

Thank you, Katherine. I noticed the footnotes refer to quenching of samples. Can you provide some additional information on what that might be?

Peter

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**From:** Vater, Katherine [<mailto:KVater@trcsolutions.com>]  
**Sent:** Wednesday, June 13, 2018 10:47 AM  
**To:** Ramanauskas, Peter <[ramanauskas.peter@epa.gov](mailto:ramanauskas.peter@epa.gov)>  
**Cc:** Beedle, Michael <[beedle.michael@epa.gov](mailto:beedle.michael@epa.gov)>; Mark Sheppard <[msheppard@madison-kipp.com](mailto:msheppard@madison-kipp.com)>; Stehn, Andrew <[AStehn@trcsolutions.com](mailto:AStehn@trcsolutions.com)>  
**Subject:** FW: Madison Kipp Corporation Groundwater Analytical Summary Table

Peter –

Attached is the April 2018 groundwater analytical summary table for Madison-Kipp Corporation, including the PCB results. You will be copied on future submittals of the table. I apologize for the oversight in this case.

We are working through your 5/24/18 questions and should have a response to you soon.

Thanks,  
Katherine

Katherine Vater, PE (WI)  
Project Manager



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**From:** Stehn, Andrew  
**Sent:** Tuesday, June 5, 2018 12:00 PM  
**To:** Schmoller, Michael R - DNR <[Michael.Schmoller@wisconsin.gov](mailto:Michael.Schmoller@wisconsin.gov)>  
**Cc:** Mark Sheppard <[msheppard@madison-kipp.com](mailto:msheppard@madison-kipp.com)>; Vater, Katherine <[KVater@trcsolutions.com](mailto:KVater@trcsolutions.com)>  
**Subject:** Madison Kipp Corporation Groundwater Analytical Summary Table

Mike,

TRC has completed the first semi-annual groundwater monitoring event for Madison Kipp Corporation, for the 2018 calendar year. Attached is the groundwater analytical summary table which includes data through April 2018. Please let us know if you have any questions or comments.

Thanks,

**Andrew M Stehn, PE (WI)**

Senior Project Engineer



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